



2 Mega Pixel
Network High Speed Dome
User Manual

Issue V1.1

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About this Document

Purpose

This document is a user manual for Network High Speed Dome. Including the product features, hardware installation, network access, network configuration, technical specification and troubleshooting.

Intended Audience

This document is intended for:

- Technical support engineers.
- Maintenance engineer.

Symbol conventions

The symbols may be founded in this document are defined as followed:

Symbol	Description
 DANGER	Alerts you to a high risk hazard that could, if not avoided.
 WARNING	Alerts you to a medium or low risk hazard that could, if not avoided, result in moderate or minor injury.
 CAUTION	Alerts you to a potentially hazardous situation that could, if not avoided, result in equipment damage, data loss, performance deterioration, or unanticipated results.
 TIP	Provides a tip that may help you solve a problem or save time.
 NOTE	Provides additional information to emphasize or supplement important points in the main text.

Special notices

When using video surveillance products, comply with applicable statutory and regulatory requirement to enable and maintain legal surveillance devices. It is illegal for a company or person to install surveillance devices in a office to monitor employees outside the scope of local law, or to use surveillance devices to invade other people's privacy with illegal purposes.

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1 Installation preparation

1.1 Safety precaution

The following precautions provide important information to prevent fire and personal injury caused by improper use of the device. Read this section carefully before installing a device and comply with these cautions during use. If you want to install the device in a public place, provide a conspicuous warning message “You have enter electronic surveillance area”.



CAUTION

- The actual device governs, and this document is only for reference.
- The device may be upgraded without prior notice.
- For the latest program and supplementary documentation, contact customer service center.
- If any problems occur during use, contact the supplier or customer service center.
- Any loss caused by improper operation is born by the buyer..

Basic precaution

- Install the device in strict accordance with the manufacture requirement.
- Never try to dissemble the device on your own. If any fault occurs, contact the specified maintenance center.
- No unit and individual is allowed to change the device structure, safety configuration, and performance without authorization.
- Use the device in accordance with relate law and with respect for other's legal rights.

Power supply precautions

- Use a power complies with the local electrical safety standards during device installation.
- Use a power adapter matching this device. The power supply voltage must meet the input voltage requirement.
- Never power on the device before installation completes. Before installing or removing a cable, stop using the device and power it off.

Verify that a proper power supply is used before running the device.

- Keep the power plug to be clean and dry to prevent electric shock or other risks.

Precaution For Use

- Avoid heavy weight, violent vibration, soaking during transport, store, and installation; otherwise, the device may be damaged. Any damage caused by improper transport of the assembled device during delivery from or sending back to the manufacturer for repair is out of the warranties.
- Never install the device upside down. Hold the camera core carefully. Never tightly press any structural parts; otherwise, mechanical breakdown may occur.
- Never disassemble the device to repair it. The device must be checked and repaired by professional maintenance.
- Never scratch or abrade the device surface, otherwise, the paint that drops down may cause allergy or device damage. For example, if it drops into the host, electrical malfunction may occur.
- If any exception occurs, for example, smoke is blown out of the device, the device sounds abnormally, or a peculiar smell is found, stop using the device, power it off, and remove all the cables (such as the power cables and networking cable) connected to the device.
- If the device is faulty, contact the specified maintenance center for repair.

Clean precautions

- Before cleaning the device, stop using the device and power it off, and then remove all cables (such as the power cord and networking cable) connected to the device.
- Use a soft and dry cloth to clean the device. If there is any dirt that is difficult to clean, place a few drops of mild detergent on a soft and clean cloth before cleaning. After the dirt is removed, dry the device with a cloth.
- Never use any volatile solvents (such as alcohol, benzene, and thinner) or strong and abrasive alkaline detergent; otherwise, the device surface may be damaged or the device performance may be reduced.

Environment Precautions

- Never allow any water or other liquid to flow into the device. If any liquid flows into the device by accident, power the device off, and remove all the cables (such as the power cord and network cable) connected to the device.
- Avoid heavy weight, violent vibration, soaking during transport, storage, and installation; otherwise, the device may be damaged.
- Install the device at a place far away from the heat source or ignition source, such as an electric heater or lighted candle.
- Never install or use the device in places where flammable or explosive materials are stored or in use.

Personnel precautions

The device-related installation and maintenance can only be performed by professional technical engineers or specific installation personnel.

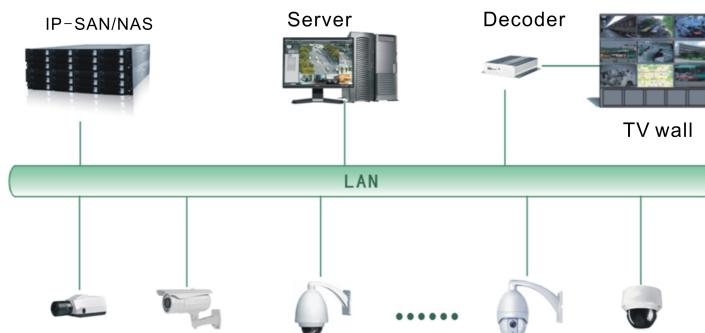
1.2 Checking the Installation Environment

Before installing the device, check the installation environment according to 1.2.

Figure 1.1 Installation environment check items

Check Item	Standard
Moisture-resistant	The relative environment humidity must be in the range from 5% to 95%. If the humidity is higher than 95%, a dehumidifier must be installed, such as an air conditioner with the dehumidification function or a dedicated dehumidifier. In addition, water seepage, water dropping, and dew forming are not allowed.
Dustproof	If the office block is near the source of dust, such as the colliery, country road, and farm, aluminum alloy doors and windows of double layers must be installed for the offices, and anti-burglary and fireproofing doors must be installed for the equipment room.
Lightproof	The device must be installed in the environment that is not shined by a strong light, delaying the aging of the device enclosure.

1.3 Network Plan



2 Device Port and Description

2.1 Product Appearance

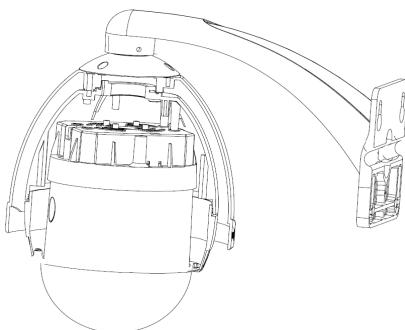
1.1 shows the appearance of a Network High Speed Dome.

Figure 1.1 Network High Speed Dome



1.2 shows the structure diagram of a Network High Speed Dome.

Figure 1.2 Structure diagram of an Network High Speed Dome



Technical Specification

1.3 shows the multi-head cable used by a dome camera. 1.3 describes cores of the multi-head cable.

Figure 1.3 Multi-head cable

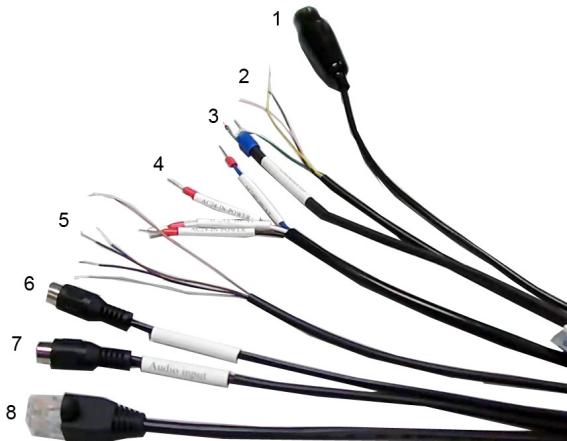


Figure 1.2 Components on the rear panel

No.	Color	Function	Description
1	N/A	Video output port	Sends analog video signals. You can connect the camera to a TV monitor through this port to view analog videos.
2	Black brown core	RS485 output (negative)	Connects an external Pan Tilt Zoom (PTZ).
	Black green core	RS485 output (positive)	
	Black yellow core	RS485 output (positive)	
	Pink core	RS485 output negative)	
3	N/A	Grounding wire	N/A
4	Red core	AC 24 V power supply wire	The red and black cores supply power for the device. The blue and white cores supply power for the heater.
	Black core		
	Blue core		
	White core		
5	Black red core	Alarm input channel common	Two channels of alarm input and one channel of alarm output.

No.	Color	Function	Description
		terminal	
	Black orange core	Alarm input channel 1	
	Black grey core	Alarm input channel 2	
	Black blue core	Alarm output channel 1 common terminal	
	Black purple core	Alarm output channel 1	
6	Red-taped core	Audio output	Connects to an external audio device such as a speaker.
7	White taped core	Audio input	Receives analog audio signals from devices such as a sound pickup device.
8	N/A	Network port	Connects a standard Ethernet cable.

2.2 Features

Network Features

- Support complete TCP/IP protocol suite.
- Support video, audio, and alarm data.
- Provides a built-in web browser and supports access using Internet explorer..
- Supports network data transmission and remote access.
- Support Point-to-Point protocol over Ethernet (PPPoE), Dynamic Host configuration protocol (DHCP), and Dynamic Domain Name System (DDNS). protocols.
- Supports Power over Ethernet (POE) that complies with the IEEE802.3af standard. The IP camera can connect to a switch or router supporting the POE function to implement POE.
- Support remote upgrade and maintenance.

Image Processing Features

- Support multiple streams. Single-stream mode or dual-stream mode can be selected based on the site requirement. Encoding parameters for the main stream and sub stream be configured separately.
- Support dynamic stream parameters based on different image quality requirement.
- Support independent hardware compression and constant bit rate (CBR) and

Technical Specification

variable bit rate(VBR) Videos can be compressed using the Motion Joint Photographic Experts Group (MJPEG) or H.264 standard. The frame rate and image quality can be configured

I/O Features

- Support bidirectional intercom and unidirectional broadcast.
- Support RS-485 serial port control and transparent channel transmission.
- Provides a 10/100 Mbits/s self-adaptive Ethernet port.

Other Features

- Support the heartbeat function that allows the management host to learn the running status of the IP camera in real time.
- Support alarm input and output, motion detection alarm, and alarm linkage function.
- Supports level-based user rights management.

3 Hardware Installation

3.1 Preparing Installation Tools

3.1 show list installation tools that you must prepare.

Figure 1.3 Installation tools

Tool	Description
Phillips screwdriver	
Claw hammer	
Hammer drill	
Level ruler	

3.2 Installing a Dome Camera

3.2.1 Installation Modes

A dome camera supports wall-mounted, suspension, ceiling-mounted and embedded installation modes. Wall-mounted can use mounting bracket No1 or mounting bracket No2 for installation. 1.1 show mounting bracket No1.1.2 show mounting bracket No2. Suspension, ceiling-mounted and embedded installation modes, as shown in 1.3, 1.4

and 1.5.

The following describes how to install a dome camera in wall-mounted mode.

Figure 1.1 Mounting bracket No1

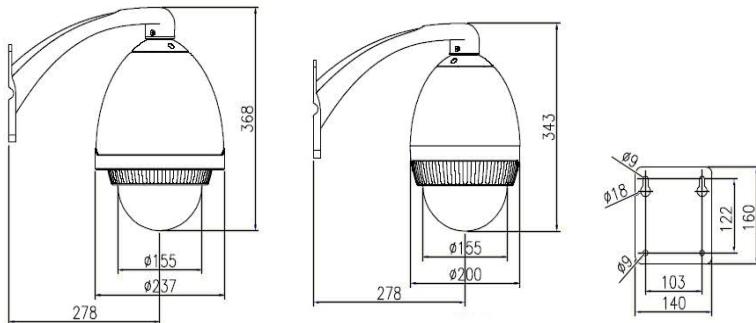


Figure 1.2 Mounting bracket No2

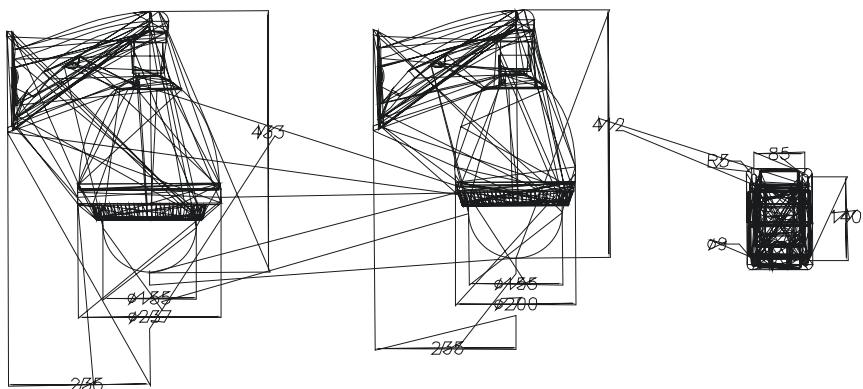


Figure 1.3 Suspension installation (unit: mm)

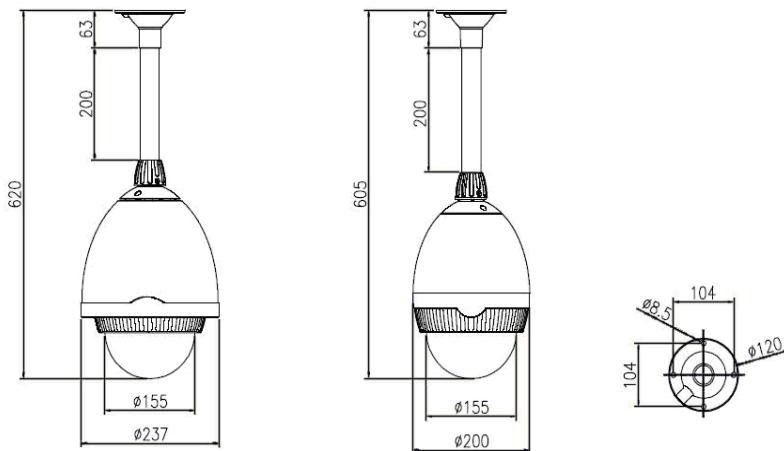


Figure 1.4 Ceiling-mounted installation (unit: mm)

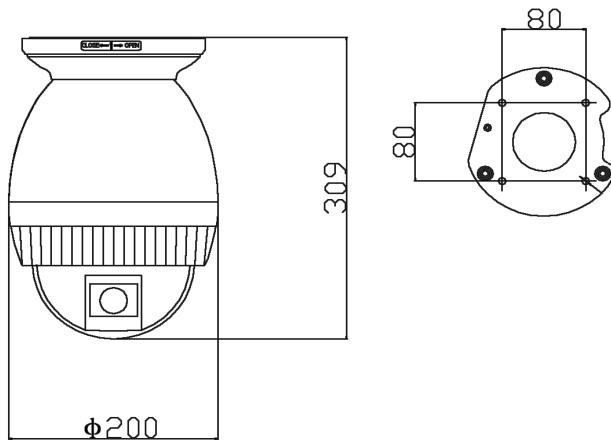
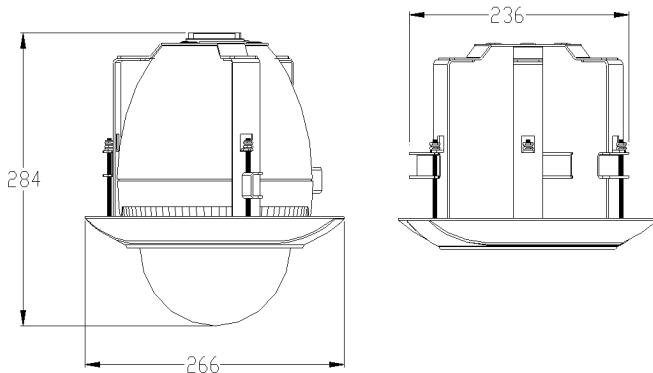
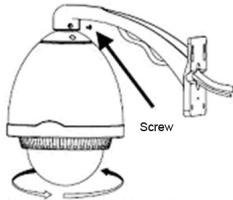


Figure 1.5 Embedded installation (unit: mm)**Installing a Dome camera in a wall-mounted Mode (using mounting bracket No1)**

Open the package and carefully take out the dome camera and accessories.

procedure

- Step 1** determine the installation location and use the $\varnothing 8$ hammer driller to drill four holes whose depth is more than 60 mm on the wall.
- Step 2** Insert four expansions bolt into the four holes respectively.
- Step 3** Attach the camera to the wall-mounted bracket.
Turn the camera clockwise to align the screw holes on the camera installation place with the holes on the bracket, and use three screws to secure the camera on the stand, as shown in the 1.1.

Figure 1.1 Attaching the camera to the bracket

- Step 4** Thread the control, video, and power cables through the bracket.
- Step 5** Install the cover plate on the wall-mounted bracket and tighten the thumb screw, as shown in the 1.1 and 1.2.

Figure 1.1 Installing cover the plate

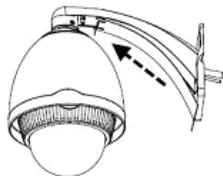
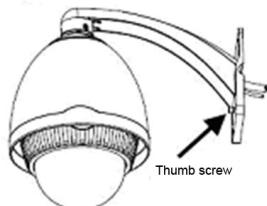


Figure 1.2 Mounting the dome camera to the wall



Step 6 Mount the dome camera to the wall and tighten the four fixing screws.

----End

Installing a Dome in a wall-mounting Mode (using mounting bracket No2)

Open the package and carefully take out the dome camera and accessories.

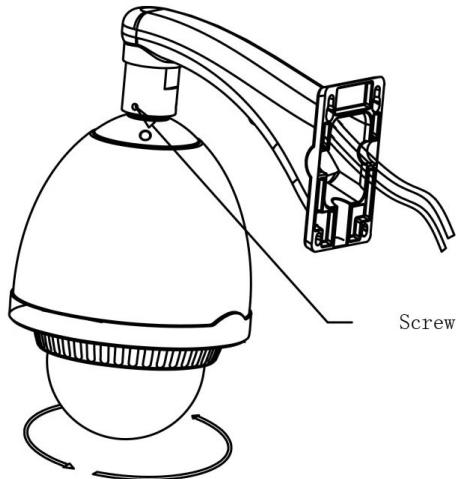
Procedure

Step 1 determine the installation location and use theφ8 hammer driller to drill four holes whose depth is more than 60 mm on the wall.

Step 2 Insert four expansions bolt into the fours holes respectively.

Step 3 Attach the camera to the wall-mounted bracket.

Turn the camera clockwise to align the screw holes on the camera installation place with the holes on the bracket, and use three screws to secure the camera on the stand, as shown in 1.1.

Figure 1.1 to the wall-mounted bracket

Step 4 Thread the control, video, and power cables through the bracket.

Step 5 Mount the dome camera to the wall and tighten the four fixing screws.

----End

4 Quick Configuration

4.1 Login and Logout



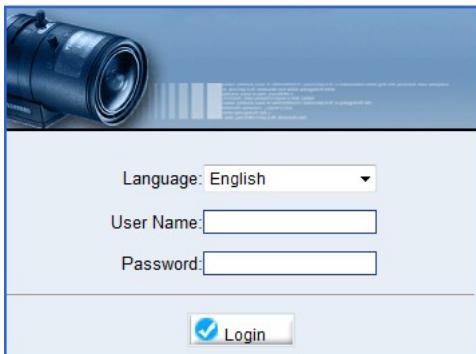
You must use Internet Explorer 6 or a later version to access the web management system; otherwise, some functions may be unavailable.

Login system

Step 1 Open the Internet Explorer, enter the IP address of IP camera (default value: 192.168.0.120) in the address box, and press Enter.

The login page is displayed, as shown in 1.1

Figure 1.1 Login page



Step 2 Input the User and password.



- The default name is **admin**. The default password is **admin**. Change the password when you log in the system for first time to ensure system security.
- You can change the system display language on the login page.

Step 3 Click Login.

The main page is displayed.

----End

logout

To logout of system, click Sign out in the upper right corner of the main page, the login page is display after you log out of the system.

4.2 Main page layout

On the main page, you can view real-time video, set parameter, Video parameter, Video control, PTZ control, PTZ Configure and log out of the system. 1.1 is shown the main page layout.

Figure 1.1 Main page layout

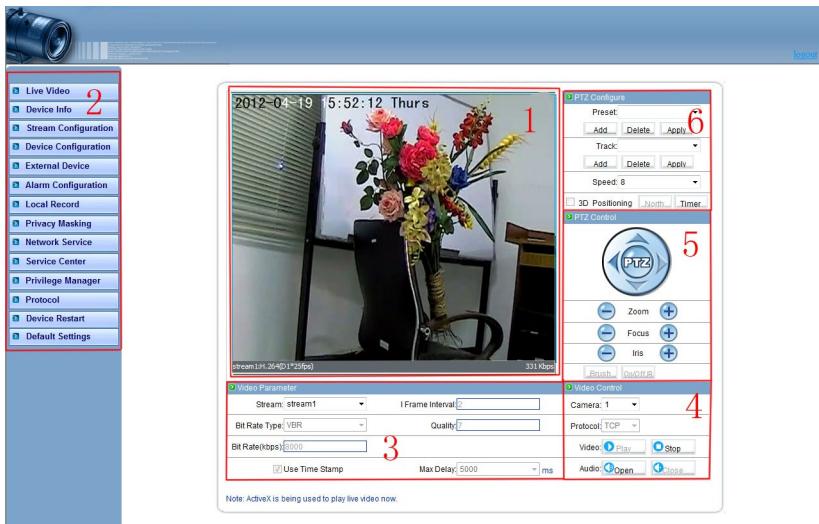


Figure 1.4 Elements on the main page

N O.	Element	Description
1	Real-time video area	Real-time videos are displayed in this area, You can also set sensor parameters.
2	Menu area	You can choose a menu to set device parameters, including the device information, audio and video streams, alarm setting, and privacy mask function.
3	Video area	Video parameters, such as the I frame interval, bit rate type, bit rate, and quality, are display.

N O.	Element	Description
4	Video control area	<p>You can perform the following operation in this area:</p> <ul style="list-style-type: none"> • Switch between cameras. • Start or stop playing Videos. • Start or stop playing audio. • Enable or disable the intercom function
5	PTZ control	<p>You can control the camera direction, zoom in or out, and change the focal length and aperture for a dome camera or a camera connected to an external PTZ.</p> <p>NOTE</p> <p>Currently the automatic aperture adjustment function is not support.</p>
6	PTZ configuration area	<p>you can perform the following operation in this area:</p> <ul style="list-style-type: none"> • Add, delete, and invoke the presents and tracks. • Adjust the PTZ rotation speed. • Enable or disable 3D position. • Set the direction to due north. • Set the PTZ timer. <p>NOTE</p> <ul style="list-style-type: none"> • PTZ timer function as a time trigger. When it is activated, the PTZ rotates according to presents and tracks as scheduled. • The PTZ timer use the time set in camera. Ensure the time is correct. • This function is available only to a camera with PTZ or camera connected to external PTZ.

4.3 Browsing Video

User can browse the real-time video in the web management system.

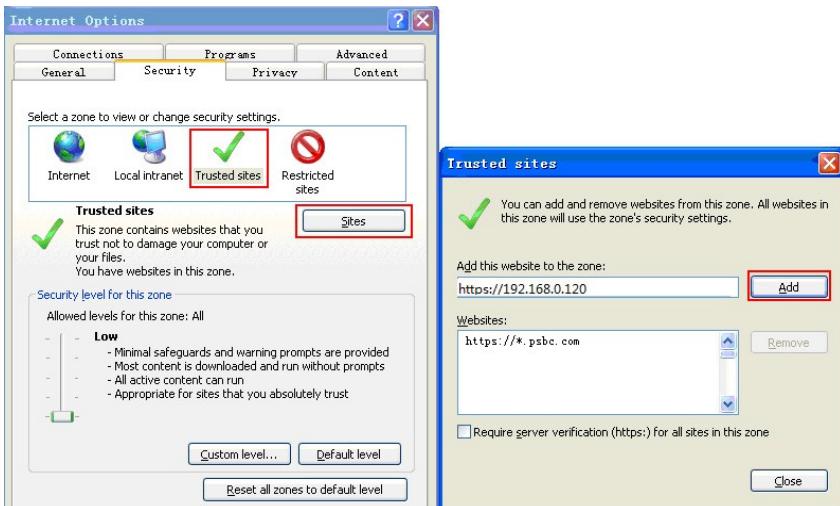
Preparation

To ensure the real-time video can be play properly, you must perform the following operation when you log in to the web for the first time:

1. Open the Internet Explorer. **Choose Tools > Internet options > Security > Trusted sites > Sites.**

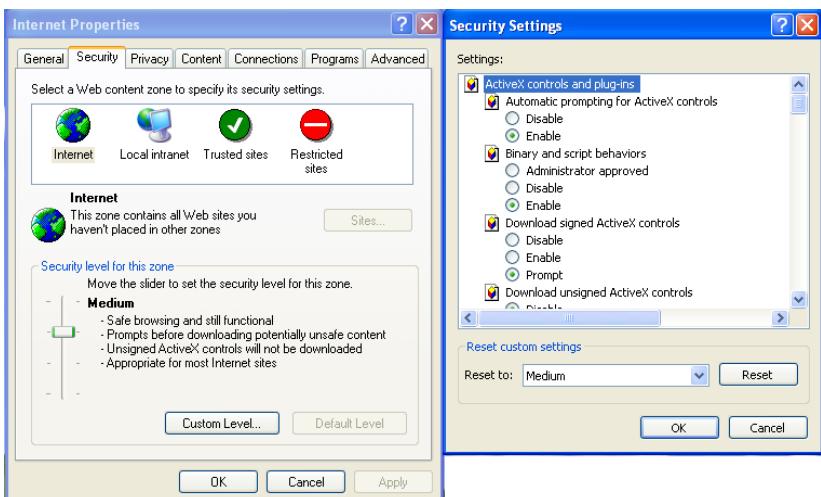
In the display dialog box, click **Add**, as shown in 1.1.

Figure 1.1 Adding the a trusted site



2. In the Internet Explorer, choose Tool > Internet Options > Security > Customer level, and set Download unsigned ActiveX control and initialize and script ActiveX controls not marked as safe for scripting under ActiveX controls and plug-ins to Enable, as shown in 2.1.

Figure 2.1 Configuring ActiveX control and plug-ins



3. Download and install the player control as prompted.

 **NOTE**

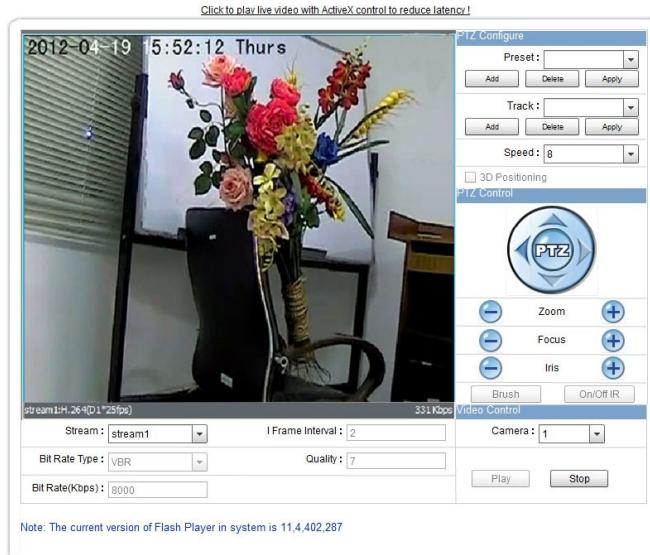
The login page is display when the control is loaded.

4.3.2 Download the right control in the Internet Explorer

Preparation

- User uses the Internet Explorer browser video.
- Real-time video page pop-ups the message “clicks to play live video with ActiveX control to reduce latency” as shown in 1.1.

Figure 1.1 Change the ActiveX

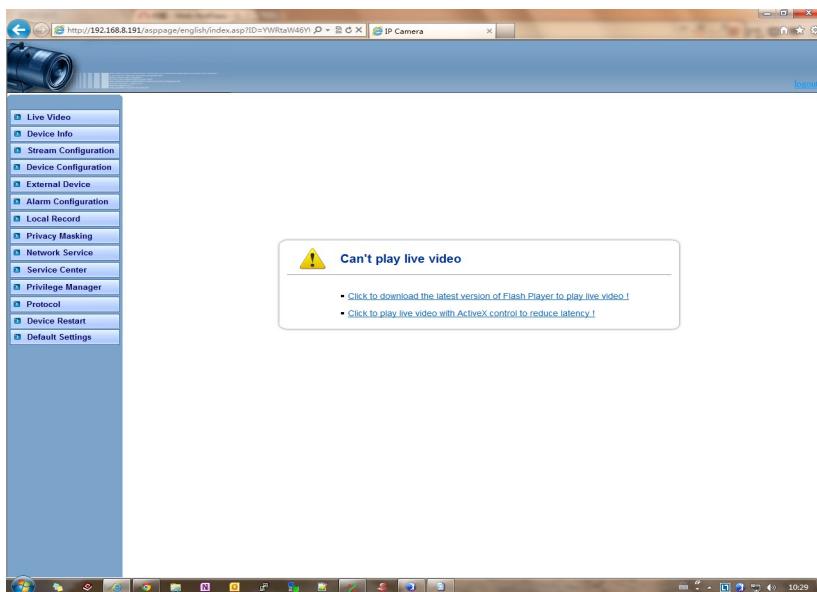


Click the message, jump to download ActiveX control interface, once downloading is complete, you can watch more fluent video screen.

Uable to display video picture, and need to download and install the control

Preparation

- User uses the IE Explorer browse video.
- Real-time video page pop-up the message “click to download the latest version of Flash Play live video” and “click to play video with ActiveX control to reduce latency” as shown in 1.1.

Figure 1.1 Download control tips

Click the message “click to play live video with ActiveX control to reduce latency”, jump download Adobe Flash Player Plugin control interface, once downloading is complete, you can watch video screen.

Click the message “click to download the latest version of Flash Play live video”, jump to download ActiveX control interface, once downloading is complete, you can watch more fluent video screen.

4.3.3 In the Google, Firefox, or Safari browsers watch real-time video

Google, Firefox, and Safari browsers only support Adobe Flash Player Plugin to play video. When Adobe Flash Plugin control version is too low, browser will automatically clew you to download the latest control.

4.4 Setting Local Network Parameters

Description

Local network parameters include:

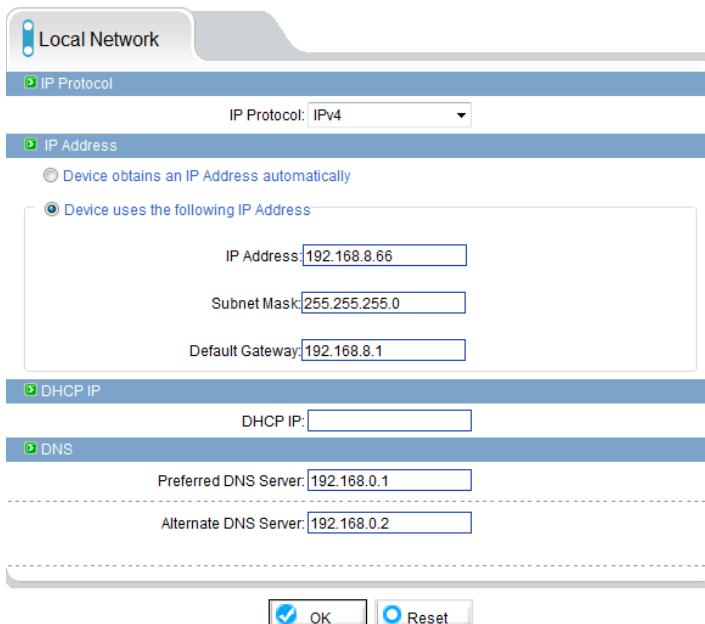
- IP protocol
- IP address
- Subnet mask
- Default gateway
- Dynamic Host Configuration Protocol (DHCP)
- Preferred Domain Name System (DNS) server
- Alternate DNS server

Procedure

Choose **Device Configuration > Local Network**.

The **Local Network** page is displayed, as shown in 1.1.

Figure 1.1 Local Network page



Step 2 Set the parameters according to 2.

Figure 1.5 Local network parameters

Parameter	Description	Setting
IP Protocol	IPv4 is the IP protocol that uses an address length of 32 bits.	[Setting method] Select a value from the drop-down list box. [Default value] IPv4
Device obtain an IP address automatically	The device automatically obtains the IP address from the DHCP server.	[Setting method] Click the option button. NOTE To query the current IP address of the device, you must query it on the platform based on the device name.
DHCP IP	IP address that the DHCP server assigned to the device.	N/A
IP Address	Device IP address that can be set as required.	[Setting method] Enter a value manually. [Default value] 192.168.0.120
Subnet Mask	Subnet mask of the network adapter.	[Setting method] Enter a value manually. [Default value] 255.255.255.0
Default Gateway	This parameter must be set if the client accesses the device through a gateway.	[Setting method] Enter a value manually. [Default value] 192.168.0.1
Preferred DNS Server	IP address of a DNS server.	[Setting method] Enter a value manually. [Default value] 192.168.0.1
Alternate DNS Server	IP address of a domain server. If the preferred DNS server is faulty, the device uses the alternate DNS server to resolve domain names.	[Setting method] Enter a value manually. [Default value] 192.168.0.2

Step 3 Click **OK**.

- If the message "Network Parameter Updated" is displayed, click OK. The system saves the settings. The message "Set network params success, Please login system again" is displayed. Use the new IP address to log in to the web management system.
- If the message "Invalid IP Address", "Invalid Subnet Mask", "Invalid default gateway", "Invalid primary DNS", or "Invalid space DNS" is displayed, set the parameters correctly.

 **NOTE**

- If you set only the **Subnet Mask**, **Default Gateway**, **Preferred DNS Server**, and **Alternate DNS Server** parameters, you do not need to log in to the system again.
- You can click **Reset** to set the parameters again if required.

----**End**

5 Technical Specification

5.1 High Speed Dome technical parameters

5.1 shows the High Speed Dome technical parameters.

Figure 1.6 Technical parameters table

Parameters	Description
module: FCB-CH6300	
Image sensor	1/2.8 Type Exmor CMOS Sensor
Pixel	two-megapixel
resolution	1920x1080
Video system	1920x1080p/25fps, 1920x1080p/30fps
Synchronous system	internal synchronous
Lens	4.7mm(wide) – 94mm(tele), F1.6 – F3.5
Minimum working distance	10mm(wide) 1000mm(tele)
Focus	Auto/manual
optical variable times	20x
Digital zoom	12x
Horizontal viewing angle	55.4degree(wide) – 2.9degree(tele)
S/N ratio	50dB
Minimum illumination	ICR off:0.26Lux;;ICR ON: 0.005Lux
Recommend working illumination	100Lux – 100000Lux
BLC	open/close
iris	Auto/manual
Electric shutter	1/1–1/10000 sec, have22level

Parameters	Description
White balance mode	Auto/Automatic track/indoor/outdoor/sodium lamp
gain	Auto/manual, -3dB – 28dB, have 16 level
Wide-dynamic	Auto/open/close
Noise suppression	6level
sharpness	16level
Done function	
Horizontal range	360degreecontinuous ration
Horizontal speed	0.01-360 degree/sec
Vertical range	0-180degree,auto ration
Vertical angle	0-93degree
Vertical speed	0.01-360 degree/sec
grid indication	support
Direction	support
present	255
Present speed	360degree/sec
Present position accuracy	<0.5degree
Line scan	12, Boundary can be set
cruise	12, each up to 32 present point
Pattern	6, maximum 1000 commands each and five minutes
Guard position	Present/cruise/san/track
Timer run	Timing can be set to run present position, cruise, pattern etc.
Power and memory	support
Alarm function	Two alarm input(switch type), one alarm output(normally normally close support)
Alarm linkage	Present/cruise/pattern/SD card store/trigger switch output
3D position	support
remote update	support
PTZ control	IP platform control, also support external 485 control
485interface	Full duplex
485protocol	PELCO-D, PELCO-P, support self-adaption, protocol can be customized

Parameters	Description
485 soft address	Support
BNC	BNC head, 1.0Vp-p/75ohm, PAL/NTSC support
Intelligent temperature power control	support
Intelligent fan control	support
Network function	
Audio input/output	Linear audio, one output, one input
Network interface	RJ-45, 10/100Base-T
SD card	One MICRO SD card interface, support32GB MicroSD/HC card
Video coding	H.264(ISO/IEC 14496-10) high/baseline profile
Bit control	CBR、VBR
Image coding specification	Max 1920x1080p@30fps
Multi-stream	support
OSD	Time, date .channel number, temperature, channel name and user-defined
Audio compression	supportG.711, G.723.1/AMR(optical)
Bidirectional talk	support
Motion detection	support
heartbeat	support
Alarm events and handing	Can through internal dynamic detection, external input, or plan to trigger events, Picture upload via FTP, Email and HTTP
Network transmission	Auto adaptive flow control technology
Web Server	Built-in Web Server, support through browser to see the real-time video and configure the parameters
Network protocol	IPv4/v6、RTP/RTCP、TCP/UDP、HTTP、DHCP、DNS、FTP、DDNS、PPPOE、SMTP
Safety	Password protection, support multiple management
General specification	

Parameters	Description
Power supply	Power supply (alternative:AC24V、4A (with heating function;DC24V、2.5A (without heating function)
Power	Power maximum24W Heater power :50W (heating function is alternative)
Operation temperature and humidity	Don't take heater:-5°C – 60°C, humidity<90% With heater: -40°C – 60°C, humidity<90%
Heater starts working temperature	5°C (error±5°C)
degree of protection	IP66 (outdoor dome) , 6Klightning protection, an-surge, anti-break
Store environment	-40-85°C humidity0-95%
bracket	Can choose outdoor wall-mounted bracket, corner-mounted bracket and indoor lifting bracket.
installation	Wall, ceiling, corner mounted
Weight((without bracket)	4.5KG

6 Troubleshooting

6 describes the common faults and solutions.

Figure 1.7 Common fault and solution

Problems	Possible Causes	Remedies
No action when power is switched on	Power supply fault	Replace
	Bad connection of the power	Correct
	Transformer damaged	Replace
Abnormal self-check. Images with motor noise	Mechanical failure	Repair
	Camera inclined	Reinstall
	Power supply not enough	Replace
Normal self-check but no images	Video signal fault	Reinstall
	Bad connection of the video	Press to connect well
	Camera damaged	Replace
Normal self-check but out of control	RS485 bus bad connection	Check the RS485 connection
	Dome ID setup is wrong	Reselect
	Protocol setup is wrong	Reset and Switch ON again
Vague image	Bad connection of the video	Press to connect well
	Power supply not enough	Replace
Dome camera out of control	Self check error	Switch ON again
	Bad connection of control	Press to connect well
	Bad control of matrix	Switch ON again
Lens of Dome out of control	In manual state	
Use IR Remote controller on DVR but out of control	Address of IR Remote controller error	Correct
	IR Remote controller no battery	Change battery

7 Lightning Proof and Surge Signal Proof

The product adopts TVS lightning proof technology to prevent from damage by lightning strike below 1500 W and impulse signals such as surge; but it is also necessary to abide by the following precautions to ensure electrical safety based on practical circumstances:

- Keep the communication cables at least 50 meters away from high voltage equipment or cables.
- Make outdoor cable laying-out under eaves as possible as you can.
- In open area shield cables in steel tube and conduct a single point ground to the tube. Trolley wire is forbidden in such circumstances.
- In strong thunderstorm or high faradic zone (such as high voltage transformer substation), extra strong lightning proof equipment must be installed.
- Take the building lightning proof requirements into account to design the lightning proof and grounding of outdoor equipment and cable laying-out in accordance with the national and industrial standards.
- The system must be grounded with equal potentials. The earth ground connection must satisfy the anti-interference and electrical safety requirements and must not be short connected with high voltage electricity net. When the system is grounded separately, the resistance of down conductor should be $\leq 4\Omega$ and the sectional area of down conductor should be $\leq 25\text{mm}^2$ (refer to Figure E.1).

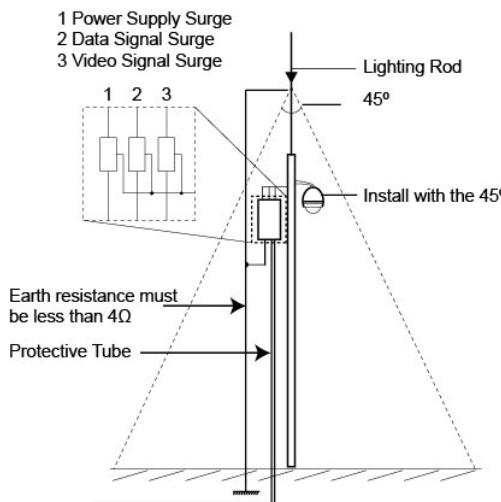


Figure 1.1 Declaration on Hazardous Substances in Electronic Information Products

Part	Hazardous Substances					
	Pb	Hg	Cd	Cr6+	PBB	PBDE
Mechanical part	○	○	○	○	○	○
Board/circuit module	○	○	○	○	○	○
Connector	○	○	○	○	○	○
Support devices	○	○	○	○	○	○

○: Indicates that the concentration of the hazardous substance contained in all the homogeneous materials of this part is below the limit requirement of the SJ/T 11363-2006 standard.

×: Indicates that the concentration of the hazardous substance contained in all the homogeneous materials of this part is above the limit requirement.

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